



Repeater: NØDX 145.190 MHz (Input 144.590 / Tone 192.8 Hz)



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The Eastern Iowa DX Bulletin

Number 228, June 28, 2024

Craig Fastenow, KØCF, Editor

This bulletin is a compilation of **currently active** DX operations (or those that will become active within the current week) from recent issues of the three DX bulletins listed below and other sources. Credit for the source is given at the end of each article.

Articles are ordered by the entity's callsign prefix from the *ARRL DXCC Entities List*. Callsigns used are in **bold** with dates of operation highlighted in **red**. Clickable links are provided for QSL and other information wherever possible. Note that articles may be edited for grammar, language, style and accuracy and will remain in *The Bulletin* while active; articles that are announcements of ongoing operations, or that have no specified end date, will be removed after three weeks.

Also included is a [Propagation](#) section, updated daily; and a [Contest Calendar](#) of upcoming popular contests.

DX News items are courtesy of:

The ARRL DX Bulletin

The bulletin is available at <http://www.arrl.org>

425 DX News, A.R.I. DX Bulletin (425DXN)

Edited by Mauro Pregliasco, I1JQJ & Valeria Pregliasco, IK1ADH

425 DX News Home Page: <https://www.425dxn.org/>

425 DX News Google Group: <https://groups.google.com/g/425eng>

DX Newsletter (DXNL)

Edited by Andreas Salder, DK5ON

A weekly service of DARC Committee "DX", <http://www.darcdxhf.de>

Ohio-Penn DX Bulletin (OPDX)

Edited by Tedd Mirgliotta, KB8NW. Although OPDX is no longer published as a weekly bulletin, Tedd still sends DX news emails.

We will occasionally publish some of them.

Propagation data is from:

National Oceanic and Atmospheric Administration's

[Space Weather Prediction Center](#)

Dr. Tony Phillips' SpaceWeather.com, used by permission

Contest data courtesy of the [WA7BNM Contest Calendar](#)



Solar-Terrestrial Data

29 Jun 2024 1713 GMT

SFI: 181 SN: 205

A-Index: 59

K-Index: 2

X-Ray: C2.6

304A: 162.1 @ SEM

Ptn Flx: 121

Elc Flx: 1300

Aurora: 4/n=1.99

Mag (Bz): -7.3

Solar Wind: 442.3

Geomag Field QUIET

Sig Noise Lvl S1-S2

Current Solar Image



<http://www.norbh.com>
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DX News

5H, TANZANIA. Chas, NK8O will be QRV as **5H3DX** near Dodoma from **June 18th to 30th**. Activity will be in his spare time on 30 to 10 meters using CW, FT8, and FT4 both in DXpedition mode. QSL direct to [NK8O](#).

-[ARRL DX Bulletin # 22 June 13, 2024] (0614-0705)

7Q, MALAWI. Marc, MØCMC, is working at the University Mzuzu and has been assigned the callsign **7Q5MLV**. QRV on 80-10m (CW, SSB) with 100W and an end fed antenna. QSL via eQSL.

-[DXNL # 2412 June 26, 2024] (0628-0719)

8Q, MALDIVES IS. Christian, OE3DEC, to be active as **8Q7EC**, is now scheduled for **July 1st-12th**.

-[DXNL # 2412 June 26, 2024] (0628-0719)

9M2, WEST MALAYSIA. Special callsign **9M4TOTA** is for "Terengganu On The Air", a special activity designed to introduce noteworthy tourism destinations throughout the state of Terengganu (West Malaysia). The first operation will take place on **June 28th-29th** from Teluk Gadung Beach. Look for activity on 80-10 meters SSB, CW and FT8. QSL direct via [9M4TOTA](#).

-[425DXN # 1729 June 22, 2024] (0628-0705)

9M6, EAST MALAYSIA. Team **9M1Z** will be active from Tanjung Datu (the western tip of Malaysian Borneo), Sarawak on **June 15th-30th**. Look for activity on 80-6 meters SSB, CW and FT8. See <https://www.marhazk.com/9m1z/> for more information. QSOs will be uploaded to ClubLog, LoTW, and QRZ Logbook. QSL direct to [9W8ZZK](#) or [9M8WIN](#)

-[425DXN # 1727 June 8, 2024] (0614-0705)

C5, GAMBIA. Jean-Louis, F6ITS left France in August 2023 for a 2-3 year around-the-world voyage. He recently obtained his Gambian license and will be active as **C5GM until the end of the year**. For the time being he operates SSB and CW (QRS); the station is located on his sailing boat, the "Sharkif", which means that **his operations cannot be accepted for DXCC credit**. QSL via [EA7FTR](#).

-[425DXN # 1730 June 29, 2024] (0628-0719)

DL, GERMANY. Special callsign **DLØSOP** will be active on **July 1st-31st** for the 66th edition of the Sea of Peace Award (see <https://dl0sop.darc.de/> for full details). QSL via [ClubLog's OQRS](#), LoTW, eQSL, or direct to [DL4SVA](#).

-[425DXN # 1730 June 29, 2024] (0628-0802)

DL, GERMANY. The following special event callsigns will be active from **June 14th to July 17th** around the European Football Championship: **DL2Ø24E**, **DL2Ø24U**, **DL2Ø24R**, and **DL2Ø24O**. Awards are available: <https://www.darc.de/der-club/referate/dx/sonderdiplome/>. QSL via DARC QSL bureau, [DL2VFR](#).

-[DXNL # 2409 June 5, 2024] (0607-0719)

DU, PHILIPPINES. Christian, F4EBK is active as **DU3/F4EBK** from Luzon Island (OC-042) **until early 2025**. He is QRV on 20, 15 and 10 meters, typically around 0900 UTC and after 2100 UTC. QSL via [F4EUQ](#).

-[425DXN # 1729 June 22, 2024] (0621-0712)

DXCC TOP TWENTY. Here are the top 20 entities on ClubLog's "DXCC Most Wanted" list as of June 28, 2024:

1. P5	DPRK (North Korea)	11. 3Y/B	Bouvet Island
2. BS7H	Scarborough Reef	12. ZS8	Prince Edward & Marion Islands
3. CEØX	San Felix Islands	13. KH4	Midway Island
4. BV9P	Pratas Island	14. VKØM	Macquarie Island
5. KH7K	Kure Island	15. PYØS	Saint Peter And Paul Rocks
6. KH3	Johnston Island	16. KP5	Desecheo Island
7. FT/G	Glorioso Island	17. VPØS	South Sandwich Islands
8. 3Y/P	Peter 1 Island	18. KH5	Palmyra & Jarvis Islands
9. FT5/X	Kerguelen Island	19. ZL9	New Zealand Subantarctic Islands
10. YVØ	Aves Island	20. FK/C	Chesterfield Islands

For the complete list, see <https://clublog.org/mostwanted.php>

-[KØCF June 28, 2024] (0628-0719)

E7, BOSNIA-HERZEGOVINA. Special callsign **E71ØØRADIO** is for ARAuBiH, the Bosnia and Herzegovina IARU member society, to celebrate "100 years of amateur radio innovation, community and advocacy". A printable QSL card can be requested at <https://arabih.ba/request-e7100radio-qsl/>.

-[425DXN # 1729 June 22, 2024] (0621-0712)

ES, ESTONIA. Timo, OH1NOA will be QRV as **ESØNO** on Saaremaa Island, IOTA EU-034, Grid Square KO08, from **June 30th to July 2nd**. QSL to [OH1NOA](#).

-[ARRL DX Bulletin # 24 June 27, 2024] (0628-0705)

F, FRANCE. Members of Radio-Club d'Esquerdes will be active as **TM62FLAM** from **June 29th to July 3rd**. The special callsign marks the progress of the Olympic flame through French Department 62 on its way to Paris. They will also be active as **TM2024JO** from **July 27th to August 10th** during the Olympic Games. QSLs via the bureau to [F5KAI](#).
-[425DXN # 1727 June 8, 2024] (0628-0705)

F, FRANCE. Special callsign **TM111TDF** is a French special callsign to be activated for this year's 111th edition of the Tour de France. Look for activity on **June 29th, July 1st-2nd, 6th, 9th-11th, 13th-14th and 17th-21st**. QSL via [F8GGZ](#).
-[425DXN # 1729 June 22, 2024] (0628-0726)

F, FRANCE. During the Paris 2024 Olympic Torch Relay and the actual Olympic Games, look for **TM67OG** to be active for fifteen days from **June 25th to July 27th**, and **TM67JO** to be active for another fifteen days from **July 26th until August 11th**. The operators will be F1LFL (SSB), F5PZT (FT8 and FT4) and F5TFW (CW). QSL via [F1LFL](#).
-[425DXN # 1728 June 15, 2024] (0621-0816)

F, FRANCE. Olympic Games Special Event Stations The special event station **TM51OG** will be active around the Torch Relay from **June 23rd to 30th**. The callsign **TM51JO** will be active from **July 26th to August 9th** during the Olympic Games and the special event station **TM51JP** from **August 28th to September 8th** during the Paralympic Games. For more information see [TM51OG](#), [TM51JO](#) and [TM51JP](#) on qrz.com. QSL all three via [F5JYD](#).
-[DXNL # 2411 June 19, 2024] (0621-0705)

F, FRANCE. Vitaly, F4WBU will be active as **TM17CEF** on **June 14th-28th**, and as **TM24F** from **June 29th to July 14th**. The special callsigns are for the 17th edition of the UEFA European Football Championship, the quadrennial international men's football (soccer) championship of Europe to be held in Germany. QSL via [F4WBU](#) and eQSL.
-[425DXN # 1728 June 15, 2024] (0614-0719)

F, FRANCE. Special event station **TM85JO** operates around the Olympic Torch stages from **May 8th to 12th, June 8th to 9th, June 21st to 23rd, July 12th to 14th**, and on **July 26th**. QSL via bureau.
-[DXNL # 2405 May 8, 2024] (0510-0726)

FP, ST. PIERRE & MIQUELON. Once again Eric, KV1J will be active as **FP/KV1J** from Miquelon Island (NA-032) on **July 2nd-16th**, including activity the IARU HF World Championship (July 13th-14th). Plans are to operate primarily SSB and FT8, plus some CW, RTTY and FT4, on 80-6 meters, "generally on the highest frequency band open" with a focus on 12, 10 and 6m. See <http://www.kv1j.com/fp/July24.html> for more information. QSL via LoTW, [ClubLog's OQRS](#), eQSL, or via [KV1J](#).
-[425DXN # 1729 June 22, 2024] (0628-0719)

FR, REUNION I. Giovanni, IZ2DPX will be active holiday style as **TO7PX** from Reunion Island (AF-016) on **July 4th-18th**. He will operate SSB and FT8 on 40-6 meters. QSL direct to [IK2DUW](#).
-[425DXN # 1730 June 29, 2024] (0628-0719)

FS, SAINT MARTIN. Gregg, W6IZT and Hal, W8HC will be active as **FS/W6IZT** and **FS/W8HC** from St Martin (NA-105) from **June 25th to July 2nd**. They will be QRV on 40-6 meters. Gregg will be taking one or two of his NexGen RiBs; his "tentative" plans are to identify a suitable location for the RIB on the Dutch (PJ7) side of the island while operating simultaneously from the French (FS) side". QSL for FS/W6IZT via [KL7OR](#), FS/W8HC via [W8HC](#).
-[425DXN # 1729 June 22, 2024] (0621-0705)

FW, WALLIS & FUTUNA IS. George, AA7JV, and other members of the N5J (Jarvis Island) crew will be testing antennas and remote operating setups with the callsign **FW7JV** from **June 25th until July 2nd** on 160-20m. QSL via [HA7RY](#).
-[DXNL # 2412 June 26, 2024] (0628-0705)

G, ENGLAND. Joining Guglielmo Marconi's 150th anniversary celebrations, the Cornish Radio Amateur Club (GX4CRC) will be active as **GB150GM** from **April 27th until July 27th**. This activity

participates in the "Marconi 150 Award", organized by the Associazione Radioamatori Italiani (ARI) and the Coordinamento Stazioni Marconiane Italiane (CSMI) under the patronage of the Guglielmo Marconi Foundation. See IR2GMCL below. QSL via eQSL.

-[425DXN # 1720 April 20, 2024] (0426-0726)

HP, PANAMA. The callsign **3E7D** will be aired from the national parks in the Darien province from **June 1, 2024 until June 1, 2025**. QSL via [HP1AVS](#).

-[DXNL # 2410 June 12, 2024] (0614-0705)

I, ITALY. Giovanni, IZ7FLP will be active as **IC8K** from Ischia Island (EU-031) from **June 30th to July 7th**. He will operate SSB, CW and FT8/FT4 on various bands. QSL direct to [IZ7FLP](#), or via LoTW in due course.

-[425DXN # 1729 June 22, 2024] (0628-0712)

I, ITALY. Members of ARI Genova will activate special event station **I1IALA** from La Lanterna (the lighthouse of Genoa) from **June 29th to July 3rd**, approximately between 0700 and 1600 UTC on a daily basis. The International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA) has selected La Lanterna as Heritage Lighthouse of the Year 2024. QSL via [I1GE](#).

-[425DXN # 1729 June 22, 2024] (0628-0705)

I, ITALY. The ARI section Venezia (IQ3VE) draws attention to Marco Polo's death 700 years ago with the callsign **IR3POLO** until the end of June.

-[DXNL # 2412 June 26, 2024] (0628-0705)

I, ITALY. Celebrating Pesaro Capitale Italiana della Cultura (Italian Capital of Culture) 2024, members of ARI Pesaro and ARI Fano will be active as **I16CIC** from **June 1st to August 29th**. QSL via [I16PS](#).

-[425DXN # 1725 May 25, 2024] (0531-0830)

I, ITALY. Members of ARI Colli Albani (IQ0HV) will be active as **I10LOR** from **May 31st to June 30th** to mark the 80th anniversary of the Liberation of Rome (June 4, 1944). A certificate will be available, see <https://www.qrz.com/db/I10LOR> for information. QSL via [I0KNQ](#).

-[425DXN # 1725 May 25, 2024] (0531-0705)

I, ITALY. Commemorating the 150th anniversary of the birth of Guglielmo Marconi, members of ARI's Board of Directors will be active as **IR2GMCL** from **April 28th to July 27th** during the "Marconi 150 Award". See <https://www.qrz.com/db/IR2GMCL> for the rules. Paper QSL cards will not be provided; electronic QSLs may be downloaded from the HamAward platform.

-[425DXN # 1720 April 20, 2024] (0426-0726)

JD1/M, MINAMI TORISHIMA. Take, JG8NQJ plans to be QRV as **JG8NQJ/JD1** beginning around **June 20th**, and here for about **three months** while working at the weather station. Activity will be in his limited spare time on the HF bands using CW and some FT8. QSL direct to [JA8CJY](#).

-[ARRL DX Bulletin # 22 June 13, 2024] (0614-0705)

K, UNITED STATES. The following stations will be active during the 16th annual "13 Colonies Special Event", which will be held from **1300 UTC on July 1st until 0400 UTC on July 8th**: **K2A** (New York), **K2B** (Virginia), **K2C** (Rhode Island), **K2D** (Connecticut), **K2E** (Delaware), **K2F** (Maryland), **K2G** (Georgia), **K2H** (Massachusetts), **K2I** (New Jersey), **K2J** (North Carolina), **K2K** (New Hampshire), **K2L** (South Carolina), and **K2M** (Pennsylvania), plus 'bonus stations' **WM3PEN** from Philadelphia (the city where the US independence was declared), **GB13COL** from England, and **TM13COL** from France. Information about the award program can be found on <http://www.13colonies.us/>. QSL [GB13COL](#) direct. QSL TM13COL via [F5OGL](#).

-[425DXN # 1729 June 22, 2024] (0628-0712)

KH8, AMERICAN SAMOA. After leaving Lord Howe I., Yuris, YL2GM, will be active as **K8K** for another week from **June 26th to July 9th**. QSL via [ClubLog's OQRS](#) (preferred), or via [YL2GN](#).

-[425DXN # 1726 June 1, 2024] (0621-0712)

OE, AUSTRIA. Joerg, OE6VIE, celebrates the 60th anniversary of the Rhein Ruhr DX Association with the callsign **OE60RRDXA** until the end of June.

-[DXNL # 2412 June 26, 2024] (0628-0705)

OE, AUSTRIA. Special callsign **OE7ØVIE** marks the 70th anniversary of Vienna International Airport (IATA code VIE) from **June 21st to September 30th**. QSL via [ClubLog's OQRS](#) (preferred), LoTW in due course, or via [OE6VIE](#).

-[425DXN # 1729 June 22, 2024] (0621-0927)

OE, AUSTRIA. The special event station **OE24BI** remains active from Bad Ischl **until the end of June**. Op is Christian, OE5CCN.

-[DXNL # 2412 June 26, 2024] (0628-0705)

OX, GREENLAND. Bo, OZ1DJJ will be active again as **OX3LX** from Greenland from **June 28th to July 16th**. In his spare time, he will be QRV on 4 and 6m, as well as on the HF bands, from grids GP47, GP60, GP80 (Sammisoq aka Christian IV Island, NA-151) "and maybe some more during day trips". QSL via [OZØJ](#).

-[425DXN # 1730 June 29, 2024] (0628-0719)

OZ, DENMARK. Celebrating the 60th anniversary of the IOTA Program, three special callsigns will be active on all bands and modes from **July 1st to August 31st**: **OZ6ØIOTA** will be used from mainland Denmark **5Q6ØIOTA/#** will be used by residents on Danish islands **5P6ØIOTA/#** will be used during island DXpeditions The suffix appended to 5Q6ØIOTA and 5P6ØIOTA will indicate the IOTA group as follows: /Ø = EU-030, /1 = EU-171, /2 = EU-172, /5 = EU-125, /8 = EU-088, /9 = EU-029. There will be an activity calendar on <https://www.supersaas.dk/schedule/EDR/OZ6ØIOTA>. A number of certificates will be available, see <https://www.qrz.com/db/OZ6ØIOTA> for complete information. QSL via [ClubLog's OQRS](#) (preferred), LoTW, or via [OZ1ACB](#).

-[425DXN # 1727 June 8, 2024] (0628-0830)

SP, POLAND. Special callsign **SN91LOT** will be active on **July 1st-31st** to commemorate the 91st anniversary of the ill-fated flight of Lithuanian pilots Steponas Darius and Stasys Girenas. On July 15, 1933, they attempted a nonstop flight from New York City to Kaunas in a small airplane named "Lituanica". After crossing the Atlantic Ocean, they crashed on July 17 when they were only 650km short of their final destination. QSL via [SP1PMY](#).

-[425DXN # 1730 June 29, 2024] (0628-0802)

SP, POLAND. Special callsigns **SP9ØØCPZ**, **3Z1OTTON**, **HF1OTTON**, **SN1OTTON**, **SO1OTTON**, **SP1OTTON** and **SQ1OTTON** will be active from **June 3rd to July 2nd** to mark the 900th anniversary of the first mission to Pomerania undertaken by Otto, bishop of Bamberg. A certificate will be available, see <https://sp1kze.pzk.org.pl/900.html#en> for information.

-[425DXN # 1726 June 1, 2024] (0531-0705)

TR, GABON. Roland, F8EN has been unable to be very active as **TR8CR** because of "problems with his amplifier". He is going back to France in the next few days for a family event" but expects to return to Gabon in **early July** with a new amplifier for at least a month. He will operate CW only and will celebrate his 96th birthday while there. Log search on <http://LesNouvellesDX.fr/voirlogs.php>. QSL via [F6AJA](#).

-[425DXN # 1729 June 22, 2024] (0621-0705)

UR, UKRAINE. Special callsign **EM1ØØWJZ** commemorates the 100th anniversary of the first amateur radio activity from the ancient city of Lwow, nowadays Lviv. It was conducted by 15-year-old Jan Zembicki, LW3 (then SP3AR, SP1AR, and finally SP6FZ), a founding member of the Lviv Shortwave Club (LKK) and an outstanding figure in the history of Polish amateur radio. EM1ØØWJZ will be active from **July 1st to December 31st**. QSL via [UR4WWE](#).

-[425DXN # 1729 June 22, 2024] (0628-0719)

VE, CANADA. The Club Radio Amateur de Quebec (VE2CQ) will be active as **VC2TQSM** From **June 29th to July 7th** for the Transat Quebec-Saint-Malo, the sailing transoceanic race taking place every four years, from Quebec City (Canada) to Saint-Malo (France). This radio activity will be done jointly with the Association des Radio Amateurs de la Cote d'Emeraude, which will be active as **TMØQSM** on **July 7th-14th**. QSL VC2TQSM via the bureau. QSL TMØQSM via [F5BNJ](#).

-[425DXN # 1729 June 22, 2024] (0628-0712)

VP5, TURKS & CAICOS IS. Adrian, AA5UK will be active holiday style as **VP5/AA5UK** from Providenciales (NA-002), Turks and Caicos Islands from **June 23rd to July 5th**. He will operate digital modes (FT8, RTTY, Olivia) and SSB on 40-6 meters, and will also be QRV via satellite (updates will be posted to <https://x.com/AA5UK>). QSOs will be uploaded to ClubLog and in due course to LoTW. QSL direct to [AA5UK](https://x.com/AA5UK).

-[425DXN # 1728 June 15, 2024] (0621-0705)

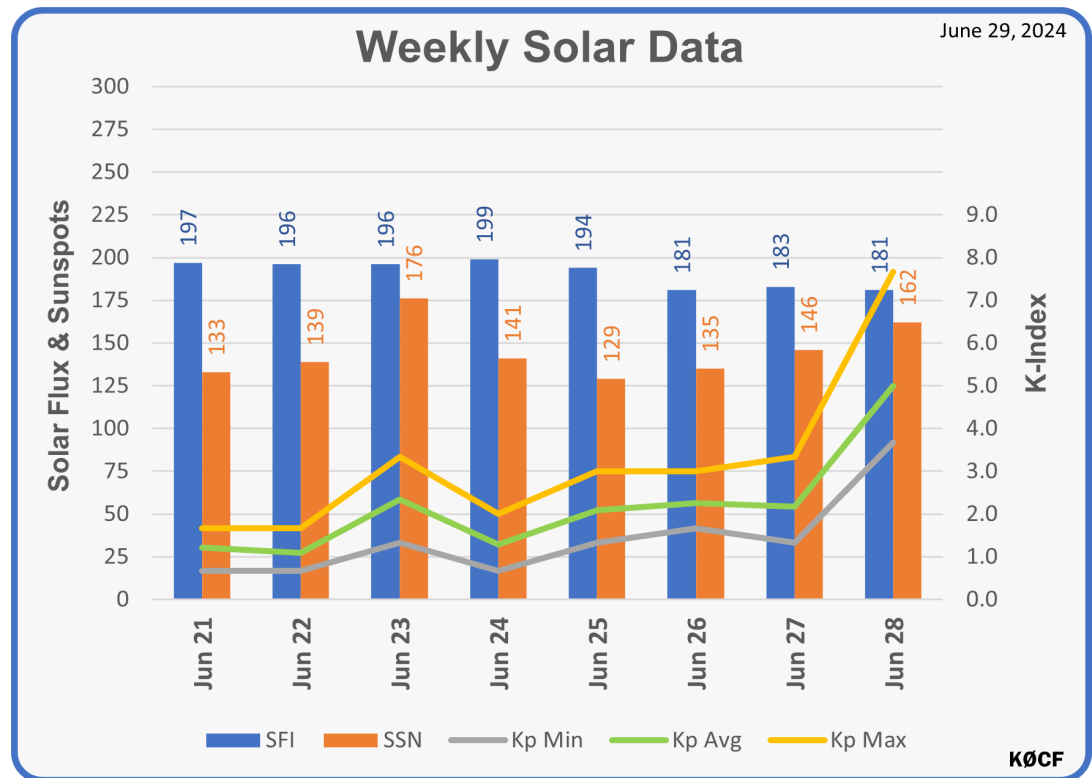
XU, CAMBODIA. Tom, DL7BO is QRV as **XU7GNY** until **July 21st**. Activity is on 160 to 6 meters using CW, SSB, and FT8. QSL via [DL4WK](https://x.com/DL4WK).

-[ARRL DX Bulletin # 24 June 27, 2024] (0628-0726)

YB, INDONESIA. Look for Ferdy **YB9MKF/p**, Herry **YC9MFD/p** and Vernando **YD9LAU/p** to be active from Semau Island (OC-241) on **July 4th-7th**. QSL via operator's instructions.

-[425DXN # 1730 June 29, 2024] (0628-0712)

Propagation (Updated daily)



The Weekly Solar Data chart plots Solar Flux Index (SFI), Sunspot number (SSN) and Planetary K-Index (Kp) for the past 8 days. With 8 Planetary K-index readings each day, only the minimum, average and maximum K-index values are plotted. **Note:** You may click [here](#) or on the chart above to see the same data for the past month.

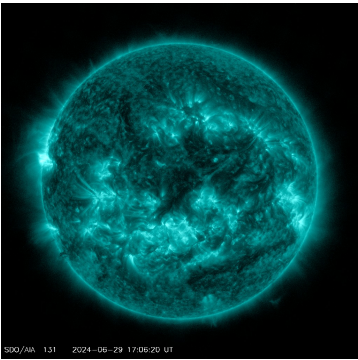
The Daily Solar Flux Index, Sunspot number, Planetary K-index, Solar Flux predictions and Solar Flare data used in this bulletin have been collected by KØCF from the U.S. Department of Commerce's NOAA Space Weather Prediction Center.

The propagation graphs above are the creations of KØCF and are unique in space weather reporting.

Please Note: The graphs are high resolution .PNG files which you may view in greater detail using your browser's "zoom" feature. Alternatively, right click on the graph and select "Open Image in New Tab" to enlarge it, or "Save Image As..." to save it to your computer for further analysis.

NASA's current view of the Sun at a wave-length of 131 Angstroms. This wavelength shows incredible solar detail.

Click [here](#) or on the image to view as a full screen 48-hour video loop. It is fascinating!



Propagation Summary

For the 8 day period from Friday, June 21st through yesterday, June 28th.

The average solar flux was 190, up 3 points from the previous week, with a weekly high of 199 on Monday, June 24th, followed by a low of 181 on June 28th.

The average sunspot count was 147, down by 4 from last week, peaking at 176 on Sunday, June 23rd followed by a weekly low of 129 on June 25th.

The Planetary K-index weekly average was 3.2 with a maximum of 7.7 on Friday, June 28th, resulting in strong geomagnetic storm conditions.

Solar flare activity since June 22nd has been high with 10 major flares, the largest of which was an M 9.3 event on Sunday, June 23rd.

Propagation Data

Major solar flares, Saturday, June 22nd through 1223 UTC, June 29th.

#	Date	UTC	Mag.
1	Jun 25	1245	M 1.0
2	Jun 24	1910	M 1.1
3	Jun 24	1148	M 1.5
4	Jun 24	0417	M 1.3
5	Jun 23	1301	M 9.3
6	Jun 23	1137	M 1.2
7	Jun 23	0630	M 2.4
8	Jun 22	1106	M 1.0
9	Jun 22	0855	M 2.8
10	Jun 22	0438	M 1.2

(NOAA's graph of recent flare activity: [GOES-X-Ray-Flux](#))

From the NOAA Space Weather Prediction Center, here are the probabilities of major solar flares and the predicted 10.7 cm Solar Flux for the next 3 days. NOAA updates this information daily.

Date	M-Flares	X-Flares	Solar Flux
Jun 29	50%	5%	180
Jun 30	50%	5%	185
Jul 1	50%	5%	190

Looking farther ahead, here is the NOAA Space Weather Prediction Center forecast of 10.7 cm radio flux and maximum Planetary K-index (Kp) for the next 12 days. This data is updated by NOAA every Monday (last updated on June 24, 2024).

Date	Flux	Kp
Jun 29	190	2
Jun 30	190	2
Jul 1	190	2
Jul 2	195	2

Date	Flux	Kp
Jul 3	190	2
Jul 4	185	2
Jul 5	190	2
Jul 6	180	2

Date	Flux	Kp
Jul 7	180	2
Jul 8	165	2
Jul 9	165	2
Jul 10	180	2

Surprise Geomagnetic Storm

Forecasters were surprised yesterday, June 28th, when [a CME](#) struck Earth and caused a severe ([G4](#)-class) geomagnetic storm. The CME was expected, but the severity of [the storm](#) was not. Daylight over Europe and the Americas hid a potentially dynamite display of auroras.
(Copyright © [SpaceWeather.com](#) June 29, 2024. Republished by permission.)

Highs for Cycle 25

Solar Flux: 234 on January 15, 2023.
Sunspots: 283 on April 21, 2024.

Popular Propagation web sites

<https://prop.kc2g.com/> (Excellent Maximum Usable Frequency map)
NOAA <https://www.swpc.noaa.gov/>
<https://www.spaceweather.com/>
<https://www.solarham.com/>
<https://dx.gsl.net/propagation/>

A Propagation Tutorial

The solar X-ray flux tracks solar activity and solar flares. Solar flux, which can vary from as low as 50 to as high as 300, influences the level of ionization in the F2 region of the ionosphere, providing a very good prediction of HF DX conditions. The higher the solar flux, the better conditions will be for the higher HF frequencies and even 6 meters. However, the levels need to be maintained for some days to allow ionization in the F2 layer to build up. A solar flux of 150 results in good HF band conditions, while levels of 200 and up can provide great conditions.

Large X-ray flares on the sun can increase the ionization of the D layer of the ionosphere (a lower layer) on the sunlit side of the Earth, greatly attenuating or blocking HF radio transmissions for up to a half hour. Solar flares often produce Coronal Mass Ejections (CMEs) which, if Earth directed, can lead to geomagnetic storms. Some large flares are also accompanied by strong radio bursts that may interfere with other radio frequencies and cause problems for satellite communication and radio navigation (GPS).

The Planetary K-index is a measure of the magnitude of geomagnetic storms and is an excellent indicator of disturbances in the Earth's magnetic field. A level of 1 or 2 represents quiet geomagnetic conditions; a reading of 3 or 4 may cause some propagation deterioration; 5 and 6 are minor to moderate geomagnetic storms; and 7 to 9 are strong, severe, and extreme storm conditions. Strong geomagnetic storms can trigger Auroral displays and cause HF radio blackouts. Higher geomagnetic activity also has the adverse effect of lowering maximum usable frequencies, much like lower solar flux does.

For best conditions, the solar flux should be above 150 for a few days with the K index below 2. When these conditions are met, some good DX is likely!
-[Compiled from information on NOAA.gov and other sources]

Contest Calendar

Weekly Contests

Contest	Start UTC		End	Web Site
K1USN Slow Speed Test	Monday	0000Z	0100Z	Rules
ICWC Medium Speed Test	Monday	1300Z	1400Z	Rules
	Monday	1900Z	2000Z	
	Tuesday	0300Z	0400Z	
CWops Test (CWT)	Wednesday	1300Z	1400Z	Rules
	Wednesday	1900Z	2000Z	
	Thursday	0300Z	0400Z	
	Thursday	0700Z	0800Z	
Weekly RTTY Test	Friday	0145Z	0215Z	Rules
NCCC CW Sprint (NS)	Friday	0230Z	0300Z	Rules

Note: Start Days are in UTC, e.g. Monday at 0000 UTC is Sunday at 7:00 PM in the Central Daylight Saving Time zone, or Sunday at 6:00 PM in the Central Standard Time zone.

Full Calendar

Contest	Start		End		Web Site
RAC Canada Day Contest	Jul 1	0000Z	Jul 1	2359Z	Rules
IARU HF World Championship	Jul 13	1200Z	Jul 14	1200Z	Rules
CQ Worldwide VHF Contest	Jul 20	1800Z	Jul 21	2100Z	Rules
North American QSO Party, RTTY	Jul 20	1800Z	Jul 21	0559Z	Rules
RSGB IOTA Contest	Jul 27	1200Z	Jul 28	1200Z	Rules
Alabama QSO Party	Jul 27	1500Z	Jul 28	0300Z	Rules
10-10 Int. Summer Contest, SSB	Aug 3	0001Z	Aug 4	2359Z	Rules
North American QSO Party, CW	Aug 3	1800Z	Aug 4	0600Z	Rules
WAE DX Contest, CW	Aug 10	0000Z	Aug 11	2359Z	Rules
Maryland-DC QSO Party	Aug 10	1400Z	Aug 11	0400Z	Rules
North American QSO Party, SSB	Aug 17	1800Z	Aug 18	0600Z	Rules
ARRL Rookie Roundup, RTTY	Aug 18	1800Z	Aug 18	2359Z	Rules
Hawaii QSO Party	Aug 24	0400Z	Aug 26	0400Z	Rules
World Wide Digi DX Contest	Aug 24	1200Z	Aug 25	1200Z	Rules
YO DX HF Contest	Aug 24	1200Z	Aug 25	1200Z	Rules
Kansas QSO Party	Aug 24	1400Z	Aug 25	2000Z	Rules
Ohio QSO Party	Aug 24	1600Z	Aug 25	0400Z	Rules
UK/EI DX Contest, SSB	Aug 31	1200Z	Sep 1	1200Z	Rules
Tennessee QSO Party	Sep 1	1700Z	Sep 2	0300Z	Rules
CWops CW Open	Sep 7	0000Z	Sep 7	2359Z	Rules

North American Sprint, CW	Sep 8	0000Z	Sep 8	0400Z	Rules
WAE DX Contest, SSB	Sep 14	0000Z	Sep 15	2359Z	Rules
ARRL September VHF Contest	Sep 14	1800Z	Sep 16	0300Z	Rules
North American Sprint, RTTY	Sep 15	0000Z	Sep 15	0400Z	Rules
Scandinavian Activity Contest, CW	Sep 21	1200Z	Sep 22	1200Z	Rules
Iowa QSO Party	Sep 21	1400Z	Sep 22	0200Z	Rules
Texas QSO Party	Sep 21	1400Z	Sep 22	0200Z	Rules
	Sep 22	1400Z	Sep 22	2000Z	
Wisconsin Parks on the Air	Sep 21	1600Z	Sep 21	2300Z	Rules
New Jersey QSO Party	Sep 21	1600Z	Sep 22	0359Z	Rules
New Hampshire QSO Party	Sep 21	1600Z	Sep 21	2200Z	Rules
	Sep 22	1600Z	Sep 22	2200Z	
Washington State Salmon Run	Sep 21	1600Z	Sep 22	0700Z	Rules
	Sep 22	1600Z	Sep 22	2400Z	

-[Contest data courtesy of the [WA7BNM Contest Calendar](#)]